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(54) Title: RETENTION OF ENDOTHELIAL CELLS ON VASCULAR GRAFTS

(57) Abstract: An implantable device including a surface containing a plurality of first zones and a plurality of second zones depressed relative to the first zones so as to provide valleys below a plane defined by the first zones, wherein a first zone to second zone width ratio is non-random throughout the device; and a biologically active agent in the valley, wherein the device is adapted to be implanted within an organism such that when said surface is subjected to a flow causing a fluid-induced shear stress, the second zone has a reduced level of the fluid-induced shear stress relative to the first zone in an amount adequate to selectively retain the biologically active agent within the valley.